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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/092,623	03/08/2002	Taku Ishizawa	Q68827	9401
75	90 06/25/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			VO, ANH T N	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 06/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

Office Action Summary

10/092,623

Applicant(s)

ISHIZAWA ET AL.

Examiner

ANH VO

Art Unit 2861



	The MAILING DATE of this communication appears	on the cover sheet with the corres			
Period	for Reply				
THE	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.				
mailing If the If NO Failure Any re	sions of time may be available under the provisions of 37 CFR 1.136 (a). In g date of this communication. period for reply specified above is less than thirty (30) days, a reply within to period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to to the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	the statutory minimum of thirty (30) days will be and will expire SIX (6) MONTHS from the mailin the application to become ABANDONED (35 U.S	e considered timely. ng date of this communication. S.C. § 133).		
Status			•		
1) 💢	Responsive to communication(s) filed on Mar 8, 20	002	·		
2a) 🗌	This action is FINAL . 2b) ✓ This ac	tion is non-final.			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposi	tion of Claims				
4) 💢	Claim(s) <u>24-31</u>	is/are	pending in the application.		
4	fa) Of the above, claim(s)	is/ar	e withdrawn from consideration.		
5) 🗆	Claim(s)		is/are allowed.		
6) 💢	Claim(s) 24-31		is/are rejected.		
7) 🗌	Claim(s)		is/are objected to.		
8) 🗆	Claims	are subject to restric	ction and/or election requirement.		
Applica	ation Papers				
9) 🗆	The specification is objected to by the Examiner.		•		
10)	The drawing(s) filed on is/are	e a) \square accepted or b) \square objecte	ed to by the Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).		
11)□	The proposed drawing correction filed on	is: a)□ approved	b) disapproved by the Examiner.		
	If approved, corrected drawings are required in reply	to this Office action.			
12)	The oath or declaration is objected to by the Examiner.				
_	under 35 U.S.C. §§ 119 and 120				
13)[X]	Acknowledgement is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
	All b) □ Some* c) □ None of:				
	1. X Certified copies of the priority documents have		•		
	2. Certified copies of the priority documents have				
	 Copies of the certified copies of the priority of application from the International Bure ee the attached detailed Office action for a list of the action for	eau (PCT Rule 17.2(a)).	this National Stage		
14)	Acknowledgement is made of a claim for domestic		(e).		
a) [7				
15)	Acknowledgement is made of a claim for domestic		0 and/or 121.		
Attachm	nent(s)				
1) 💢 No	otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper	No(s)		
2) N	otice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application	(PTO-152)		
3) 👿 in	formation Disclosure Statement(s) (PTO-1449) Paper No(s)3	6) Other:			

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DETAILED ACTION

Acknowledgement is made of the receipt of Preliminary Amendment filed 08 March 2002.

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Oath/Declaration

The declaration filed 08 March 2002 is acceptable.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The references cited on PTO 1449 have been considered.

Specification

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

CLAIM REJECTIONS

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 24-28 are rejected under 35 USC 102 (a) as being anticipated by Yoshizawa et al. (JP 08230204A).

Yoshizawa et al. disclose in Figures 1-4 an ink cartridge comprising:

- an ink pack press member (4a) which is housed in the cartridge case (3, 4) along with the ink pack (1) and which adjusts the volume of ink to be filled into the ink pack in accordance with the volume of the press member (4a) (Figures 1-2);
- wherein the ink pack (1) is formed into a substantially rectangular shape and into a bag by sealing four sides of the ink pack; wherein the press member (4a) housed in the cartridge case (3, 4) along with the ink pack (1) is formed into a frame shape having a window opening in a central portion thereof; and wherein the four sides of the ink pack (1) are pressed by the frame-shaped press member (4a);
- wherein parts of the press member (4a) opposing the four sides of the ink pack (1) are gradually reduced in thickness toward the window opening to define slope surfaces (Figures 1-2);
- wherein the slope surfaces are curved (Figures 1-2).
- wherein the press5 member (4a) is formed from resilient material. (Figure 1);
- wherein the cartridge case (3, 4) includes a first case (3) and a second case (4) which are served as covers (Figure 2).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior arts are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 29-31 are rejected under 35 USC 103 (a) as being unpatentable over Barinaga (US Pat., 6,030,074) in view of Yoshizawa et al. (JP 08230204A) and Nakazawa et al. (EP Pat. 0928694).

Barinaga discloses in Figure 1 an apparatus for delivering pressurized ink to a print head comprising:

- the cartridge case (10, 19) is hermetically formed (Figure 1);
- an ink pack (13) of flexible material storing ink (16) therein, the ink pack being housed within the outer shell (10, 19) (Figure 1);
- the case defined between the outer shell member (10, 19) and the ink pack (13) and adapted to receive the pressurized air (73) produced by the air pressurization pump when the ink cartridge is mounted to the recording apparatus (76) (Figure 1);
- wherein the cartridge case (10, 19) includes a first case (10) and a second case (19) which are served as covers (Figure 1).

However, Barinaga does not disclose an ink cartridge comprising an ink pack press member which is housed in the cartridge case along with the ink pack and which adjusts the volume of ink to be filled into the ink pack in accordance with the volume of the press member; . Serial Number: 10/092,623

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However, Barinaga does not disclose an ink cartridge comprising an ink pack press member which is housed in the cartridge case along with the ink pack and which adjusts the volume of ink to be filled into the ink pack in accordance with the volume of the press member; wherein the press member is formed from resilient material; an edge of an opening of the first case is sealed by a film member; at least one lug-shaped member is formed on the second case; wherein a tapered surface and an engagement step section are formed on the lug-shaped member such that, when the second case is attached to the first case, a flange section formed on the edge of the first case is relatively guided by and along the tapered surface to engage with the engagement step section.

Nevertheless, Yoshizawa et al. disclose in Figures 1-4 an ink cartridge comprising:
- an ink pack press member (4a) which is housed in the cartridge case (3, 4) along with the ink
pack (1) and which adjusts the volume of ink to be filled into the ink pack in accordance with the
volume of the press member (4a) (Figures 1-2);

- wherein the press5 member (4a) is formed from resilient material (Figure 1).

Furthermore, Nakazawa et al. disclose in Figures 1 and 3 an ink cartridge comprising:

- an edge of an opening (47) of the first case (40) is sealed by a film member (56);
- at least one lug-shaped member (55) is formed on the second case (50);
- wherein a tapered surface (55) and an engagement step section are formed on the lug-shaped member such that, when the second case (50) is attached to the first case (40), a flange section (46) formed on the edge of the first case (40) is relatively guided by and along the tapered surface to engage with the engagement step section.

It would have been obvious at the time the invention was made to a person having

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ordinary skill in the art to incorporate the teaching of Yoshizawa et al and Nakazawa et al. in the Barinaga ink jet recording apparatus for the purpose of providing ribs on a surface of an ink cartridge case to prevent the damage due to vibration or impact during transport.

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (703) 305-8194. The examiner can normally be reached on Tuesday to Friday from 8:00 A.M.to 5:30 P.M..

The fax number of this Group 2861 is (703) 305-3431 or 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

ANH T.N. VO

June 20, 2002